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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.

JG-EPC-5193/722489.00005

Examiner:

Fetterolf, Brandon J.

Application No.:

10/501,568

Group:

1642

Filed:

April 5, 2005

For:

CANCER TREATMENT

Commissioner for Patents

P. O. Box 1450

Alexandria, Virginia 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant herewith submits this Information Disclosure Statement in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98 and hereby makes of record the following references listed below :

U. S. PATENTPatent No.Publication DateName

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May 8, 1990

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FOREIGN PATENTSPatent No.Publication DateName

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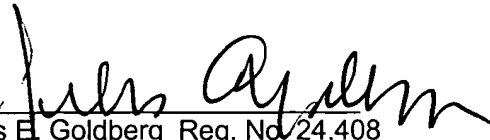
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Accompanying this Information Disclosure Statement and form PTO-1449 is a copy of the document.

This submission is not an admission that the information disclosed in the documents is material to the patentability of the invention disclosed and/or claimed in the above-identified application.

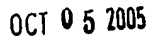
Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jules E. Goldberg", written over a horizontal line.

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Encl: Form PTO 1449 (9 pages)  
83 references





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Form 1449/PTO

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**Complete if Known**

Application Number	10/501,568
Filing Date	April 5, 2005
First Named Inventor	Gail Rowlinson-Busza
Art Unit	1642
Examiner Name	Fetterolf, Brandon J
Attorney Docket Number	JG-EPC-5193/722489

Sheet	1	of	9
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## U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
	B	WO 01/74905	10-11-2001	Young, R.		
	C	WO 92/04380	03-19-1992	Verhoeyen, M.		
	D	EP 0 239 400	09-30-1987	Winter, G.		

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/501,568		
		Filing Date	April 5, 2005		
		First Named Inventor	Gail Rowlinson-Busza		
		Art Unit	1642		
		Examiner Name	Fetterolf, Brandon J		
Sheet	2	of	9	Attorney Docket Number	JG-EPC-5193/722489

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	E	ALVAREZ, et al. A Phase I Study of Combined Modality 90 Yttrium-CC49 Intraperitoneal Radioimmunotherapy for Ovarian Cancer, 2002, Clin. Cancer Res. 8 pp2806-2811	
	F	BAO, Y M, et al., Radioimmunotherapy Combined with Chemo-Therapy and Immunotherapy for Nude Mice Bearing Human Hepatocellular Carcinoma, 1989 Zhongshai Hospital, Shanghai University of Medical Sciences, Shanghai, Zhonghua Zhong Liu Za Zhi, Chinese Journal, 11 pp 245-247, China (Article in Chinese and English abstract enclosed)	
	G	BEHR, et al. Improved Treatment of Medullary Thyroid Cancer in a Nude Mouse Model by Combined Radioimmunotherapy: Doxorubicin Potentiates the Therapeutic Efficacy of Radiolabeled Antibodies in a Radioresistant Tumor Type, 1997, Cancer Res. 57, pp 5309-5319	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Examiner Name	Fetterolf, Brandon J
Attorney Docket Number	722489.00005

Sheet

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	O	CHALANDON et al., Combined Radioimmunotherapy and Chemotherapy of Human Colon Carcinoma Grafted in Nude Mice, Advantages and Limitations, Anticancer Research 12 pgs 1131-1140, 1992	
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	X	Sandra GENDLER et al., A Highly Immunogenic Region of a Human Polymorphic Epithelial Mucin Expressed by Carcinomas is Made Up of Tandem Repeats, Journal of Biol. Chem, 263, pgs 12820-23, 1986	

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				Application Number	10/501,568
				Filing Date	April 5, 2005
				First Named Inventor	Gail Rowlinson-Busza
				Art Unit	1642
				Examiner Name	Fetterolf, Brandon J
Sheet	4	of	9	Attorney Docket Number	JG-EPC-5193/722489

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	Y	Dr. S. GILLIES, Antibody Cytokine Concept Optimising the Therapeutic Potential of Antibody-Cytokine Fusion Proteins, London, June 27 and 28, 2001, pp. 1-36		
	Z	David V. GOLD, et al. Combined Yttrium-Dota-Labeled PAM4 Antibody Radioimmunotherapy and Gemcitabine Radiosensitization for the Treatment of a Human Pancreatic Cancer Xenograft, Int. J. Cancer 109 pgs, 618-26, 2004		
	AA	David GOLDENBERG, The Role of Radiolabeled Antibodies in the Treatment of non-Hodgkin's Lymphoma: the Coming of Age of Radioimmunotherapy, Critical Reviews in Oncology/Hematology, 39, pgs 195-201, 2001		
	AB	Ajay GOPAL, et al. High-Dose Chemo-Radioimmunotherapy with Autologous Stem Cell Support for Relapsed Mantel Cell Lymphoma, Blood Vol. 99 pgs 3158-62, 2002		
	AC	M. HERNANDEZ, et al., Radiobiology og Radioimmunotherapy: Targeting CD20 B-Cell Antigen in non-Hodgkin's Lymphoma, Int. J. Radiation Oncology Biol. Phys. Vol 59, pgs 1274-87, 2004		
	AD	James S. HUSTON, et al., Protein Engineering of Antibody Binding Sites: Recovery of Specific Activity in an Anti-Digoxin Single-Chain Fv analogue Produced in Escherichia Coli, Proc. Natl. Acad. Sci. USA pgs 5879-83, 1988		
	AE	Timothy JOHNSON, et al., Synergistic Cytotoxicity of Iodine-131-Anti-CD20 Monoclonal Antibodies and Chemotherapy for Treatment of B-Cell Lymphomas, Int. J. Cancer, 85, 104-12, 2000		
	AF	Peter JONES, et al. Replacing the Complementarity-determining Regions in a Human Antibody with Those from a Mouse, Nature, Vol. 321, pgs 522-25, 1986		
	AG	Malik JUWEID M.D., Radioimmunotherapy of B-Cell Non-Hodgkin's Lymphoma: From Clinical Trials to Clinical Practice, J. Nucl. Med. 43, pgs 1507-29, 2002		
	AH	Seigo KINUYA, et al. Cooperative Effect of Radioimmunotherapy and Antiangiogenic Therapy with Thalidomide in Human Cancer Xenografts, Int. J. Cancer 43, pgs. 1084-89, 2002		

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	AJ	Seigo KINUYA et al., Efficacy, Toxicity and Mode of Interaction of Combination Radioimmunotherapy with 5-fluorouracil in Colon Cancer Xenografts, J. Cancer Res Clin Oncol 125 pgs 630-36, 1999	
	AK	Seigo KINUYA et al., Enhanced Efficacy of Radioimmunotherapy Combined with Systemic Chemotherapy and Local Hyperthermia in Xenograft Model, Jpn. J. Cancer Res. 91, pgs 573-78, 2000	
	AL	Seigo KINUYA et al., Anti-Angiogenic Therapy and Radioimmunotherapy In Colon Cancer Xenografts, Eur J. Nucl Med., Vol. 28, No. 9, 28 pgs 1306-12, 2001	
	AM	Seigo KINUYA et al., Improved Response of Colon Cancer Xenografts to Radioimmunotherapy with Pentoxifylline Treatment, Eur J. Nucl. Med. Vol. 28, pgs. 750-755, 2001	
	AN	Seigo KINUYA et al., Improved Survival of Mice Bearing Liver Metastases of Colon Cancer Cells Treated with a Combination of Radioimmunotherapy and Antiangiogenic Therapy, Eur J. Nucl. Med. Vol. 31, pgs 981-85, 2004	
	AO	Francoise Kraeber-Bodere et al., Enhanced Antitumor Activity of Combined Pretargeted Radioimmunotherapy and Paclitaxel in Medullary Thyroid Cancer Xenograft, Mol. Cancer Ther. Vol. 1 pgs 267-74, 2002	
	AP	Xioa Li et al., Benefits of Combined Radioimmunotherapy and anti-angiogenic therapy in a Liver Metastasis Model of Human Colon Cancer Cells, Eur. J. Nucl. Med. Mol. Imaging Vol. 29 pgs 1669-1674, 2002	
	AQ	Anthony Maraveyas, et al., Radiolabeled Antibody Combined with External Radithery for the Treatment of Head and Neck Cancer: Reconstruction of Theoretical Phantom of the Larynx for Radiation Dose Calculation to Local Tissues, Cancer Research 55, pgs. 1020-1027, 1995	
	AR	Ruby Meredith, et al., Intraperitoneal Radioimmunotherapy of Ovarian Cancer: A Phase I Study, Cancer Biotherapy, Radiopharm Vol. 16, pgs. 305-15, 2001	
	AS	Ivana Micallef, Ongoing Trials with Yttrium 90-Labeled Ibritumomab Tiuxetan in Patients with Non-Hodgkin's Lymphoma, Clin Lymphoma 5, pgs. S27-S32, 2004	

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	AT	Bruce NG, et al., Radiosensitization of Tumor-Targeted Radioimmunotherapy with Prolonged Toptecan Infusion in Human Breast Cancer Xenografts, Cancer Research 61, pgs 2996-3001, 2001	
	AU	Robert O'DONNELL, et al., Combined Modality Radioimmunotherapy with Taxol and Y-LYM-1 for Raji Lymphoma Xenografts, Cancer Biother. Radiopharm Vol. 13, pgs. 351-61, 1998	
	AV	Robert O'DONNELL et al., Combined Modality Radioimmunotherapy for Human Prostate Cancer Xenografts with Taxanes and Yttrium-DOTA-Peptide-ChL6, Prostate 50:27, pgs 27-37, 2002	
	AW	R. BARBARA PEDLEY, et al. Enhancement of Radioimmunotherapy by Drugs Modifying Tumour Blood Flow in a Colonic Xenograft Model, Int. J. Cancer 57 pgs. 830-35, 1994	
	AX	R. BARBARA PEDLEY, et al. Ablation of Colorectal Xenografts with Combined Radioimmunotherapy and Tumor Blood Flow-Modifying Agents, Cancer Res.56, pgs 3293-3300, 1996	
	AY	R. BARBARA PEDLEY, et al. Eradication of Colorectal Xenografts by Combined Radioimmunotherapy and Combretastatin A-4 3-O-Phosphate, Cancer Res. 61, pgs. 4716-4722, 2001	
	AZ	R. BARBARA PEDLEY, et al. Synergy Between Vascular Targeting Agents and Antibody-Directed Therapy, Int. J. Radiation Oncology Biol. Phys. 54 pgs. 1524-31, 2002	
	BA	Oliver PRESS, et al., A Phase I/II Trial of Iodine-131-tositumomab (anti-CD20), etoposide, cyclophosphamide, and Autologous Stem Cell Transplantation for Relapsed B-Cell Lymphomas, Am. Soc. Hematol., Blood, pgs Vol. 96, No. 9, 221-240, 2000	
	BB	Oliver PRESS, et al, Immunotherapy of Non-Hodgkin's Lymphomas, Hematology, pgs. 221-240, 2001	
	BC	PRESS, et al, A Phase 2 Trial of CHOP Chemotherapy Followed by Tositumomab/Iodine I 131 Tositumomab for Previously Untreated Follicular non-Hodgkin Lymphoma: Southwest Oncology Group Protocol S9911, Blood 102, 2003	

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	BD	M. REISER, et al, Current Treatment of Follicular non-Hodgkin's Lymphoma, Eur. J. Cancer 38 pgs. 1167-1172, 2002	
	BE	L. REICHMANN, et al, Reshaping Human Antibodies for Therapy, Nature 322, pgs. 323-27, 1988	
	BF	Jean Francois RIOU, et al, Effects of Taxotere on Murine and Human Tumor Cell Lines, Biochem. Biophys Res. Communications, Vol. 187, No. 1, pgs. 164-170, 1992	
	BG	Steve ROFFLER, et al., Potentiation of Radioimmunotherapy by Inhibition of Topoisomerase I, Cancer Res. 54, pgs. 1276-85, 1994	
	BH	Orlando SANTOS, et al. 5-Iododeoxyuridine Increases the Efficacy of the Radioimmunotherapy of Human Tumors Growing in Nude Mice, Journal Nucl. Med. Vol. 33, No. 8, pgs. 1530-34, 1992	
	BI	Arne SKERRA, et al., Assembly of a Functional Immunoglobulin Fv Fragment in Escherichia Coli, Science Vol. 240, pg. 1038, 1988	
	BJ	Rhona STEIN, et al. Assessment of Combined Radioimmunotherapy and Chemotherapy for Treatment of Medullary Thyroid Cancer, Clin. Cancer. Res. Vol. 5 pgs 3199s-3206s, 1999	
	BK	Rhona STEIN, et al. Combining Radioimmunotherapy and Chemotherapy for Treatment of Medullary Thyroid Carcinoma, Effectiveness of Dacarbazine, Amer. Cancer Society, 94, pgs. 51-61	
	BL	Gary Stillwagon Ph.D. et al. Variable Low Dose Rate Irradiation (I-ANTI-CEA) and Integrated Low Dose Chemotherapy in the Treatment of Nonresectable Primary Intrahepatic Cholangiocarcinoma, Int. J. Radiation Biol. Oncol. Phys. 21, pgs 1601-05	
	BM	Tang, et al. Zhonghua Zhong Liu Za Zhi 12 pgs 2-5 (Article in Chinese and English abstract enclosed)	

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	BO	Jorg Tschmelitsch et al. Enhanced Antitumor Activity of Combination Radioimmunotherapy ( 131 I-Labeled Monoclonal Antibody A33) with Chemotherapy (Fluorouracil), Cancer Res. 57 pgs 2181-86, 1997	
	BP	Verhoeven et al. Reshaping Human Antibodies: Grafting an Antilysozyme Activity, Science 239, pgs 1534-1536, 1988	
	BQ	Sally Ward et al., Binding Activities of a Repertoire of Single Immunoglobulin Variable Domains Secreted from Escherichia Coli, Nature Vol. 341 pg. 544, 1989	
	BR	Bih-Rong Wei et al., The Combined Use of an Immunotoxin and a Radioimmunoconjugate to Treat Disseminated Human B-Cell Lymphoma in Immunodeficient Mice, Clin. Cancer Res. Vol. 6 pgs 631-42, 2000	
	BS	Richard Wilder et al., The Hypoxic Cytotoxin SR 4233 Increases the Effectiveness of Radioimmunotherapy in Mice with Human Non-Hodgkin's Lymphoma Xenografts, Int. J. Radiat. Oncol. Biol. Phys. Vol. 28 pgs. 119-126, 1994	
	BT	Greg Winter & Milstein, Man-Made Antibodies, Nature, Vol. 349, pgs. 293-299, 1991	
	BU	Jane Winter, Combining Yttrium 90-Labeled Ibritumomab Tiuxetan with High-Dose Chemotherapy and Stem Cell Support in Patients with Relapsed Non-Hodgkin's Lymphoma, Clin. Lymphoma 5, pgs S22-S26, 2004	
	BV	Jeffrey Wong, et al, A Phase I Trial of Y-Anti-Carcinoembryonic Antigen Chimeric T84.66 Radioimmunotherapy with 5-Fluorouracil in Patients with Metastatic Colorectal Cancer, Clin. Cancer Res. Vol. 9, pgs. 5842-52, 2003	
	BW	Pier Zinzani, Traditional Treatment Approaches in B-Cell Non-Hodgkin's Lymphoma, Leukemia & Lymphoma 44, pgs. S6-S14, 2003	

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	BX	Hajjai, et al. Initial Results of a Phase I Trial of Treatment of Medullary Thyroid Cancer with Radioimmunotherapy (RAIT) Combined Doxorubicin (Box) Proc. Amer. Soc. Clin. Oncol. 6a, 20, 2001		
	BY	Graves, et al. Combination Therapy with Pretarget CC49 Radioimmunotherapy and Gemcitabine Prolongs Tumor Doubling Time in a Murine Xenograft Model of Colon Cancer More Effectively Than Either Monotherapy, Clin. Cancer Res. 9 pgs. 3712-721, 2003		
	BZ	R. D. Blumenthal, et al., Tumor-Specific Dose Scheduling of Bimodal Radioimmunotherapy and Chemotherapy, Anticancer Res 23, pgs. 4613-20, 2003		
	CA	David Gold, et al. Low-Dose Radioimmunotherapy (Y-Pam4) Combined with Gemcitabine for the Treatment of Experimental Pancreatic Cancer, Clin. Cancer Res. 9, pgs 3929s-3937s, 2003		
	CB	Oliver Press, Radioimmunotherapy for Non-Hodgkin's Lymphomas: A Historical Perspective, Semin. Oncol. Vol. 30, pgs. 10-21, 2003		
	CC	CX Zheng, Influence of Combination of Low Dosage I-Labeled Anti-Carcinoembryonic Antigen Antibody C20 and 5-Fluorouracil on Tumor Growth of Colorectal Cancer Xenografts in Nude Mice, (English Abstract) Ai Zheng 22, pgs. 354-57		
	CD	H. ZOLA, Monoclonal Antibodies: A Manual of Techniques, (CRC Press, 1988)		
	CE	Monoclonal Hybridoma Antibodies: Techniquet and Applications, JG R Hurrell (CRC Press, 1982)		
	CF	Antibody Engineering, A Practical Approach, J. McCafferty et al., ed. (IRL Press, 1996)		
	CG			

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